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THE INTELLOFAX SYSTEM (The CIA Library and the Machine Division)

I. EARLY DEVELOPMENTAL HISTORY (1947-54)

A. Objectives and Equipment Needs

In providing a central reference service to CIA and the intelligence community, the early managers of the Agency recognized the need to develop a machine capability for indexing and retrieving a staggering quantity of intelligenee documents. The resulting Intellofax System, which evolved jointly by the Machine Division and the Library, was unique- no other government agency, no university or library and no commercial firm had anything of its type in operation. The name was coined by Dr. Andrews in 1949 to describe the system which combined IBM and facsimile reproduction techniques for intelligence documentation purposes. Later in common parlance, the word was used not only as a nount (the Intellofax System and the Intellofax files) but also as a verb form (intellofaxed and intellofaxing for the indexing aspects) and became a household word in the intelligence community.

The actual authority for establishing the Intellofax System appeared in an ORE Instruction # 31-47, entitled Functions of the Reference Center, dated 15 July 1947.

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Assistant Director of ORE, charged the Central Index (later the Machine Division) and the Intelligence

Documents Division (later the CIA Library) to

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After numerous meetings with and investigation 25X1A5a1 of other companied, such as the machine 25X1A5a1 and a contract was let in January 1948. experts opted for 25X1A5a1 By July and produced the first of the Library Recorders and had completed the final design for the IBM card scanner. Both awaited OCD approval. Experimenting and testing continued 25X1A9a and in January 1949 reported favorably on the equipment, commenting that

it was indeed gratifying and thrilling to

see the first phase of this development

actually operating and with such fine quality

results. . . it illustrates the all out

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effort that the people of the

been and are putting into the job.

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Progress reports were prepared periodically throughout
the first six months of 1949; test runs were made during June
and the equipment was finally accepted in July. The Projecta
Review Committee on 27 July 1949 approved an amendment to the
original contract, which had been in the amount of

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The Intellofax Card, or Faxcard, was an IBM punch card of standard shape and dimensions which bore on its face up to 200 words of printed information, the so-called bibliographic data: source, country, date, title, possible abstract, pagination and security classification. The corresponding coded and punched data appeared at one end of the card. The cards were sorted, selected and

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arranged by standard IBM machines; and the printed information on the selected cards was transmitted and reproduced by facsimile process.

The equipment delivered in May 1950 was the second prototype resulting from the developmental engineering begun in January 1948. "Shake-down" tests were still being conducted in mid-1951 concurrent with actual usage.

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an Office of Communications employee (and formerly an engineer with was on temporary

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duty with CCD and placed in charge of the Faxcard equipment.

He wrote to (chief of the Machine Methods Division since September 1950) that since the equipment was not standard equipment, additional development was anticipated before the stability of the equipment could be placed in a class with that afforded by existing teletype machines.

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on the equipment, investigated the potential use and availability of thermo-printers which would reproduce/printed, typed or written data by a heat process.

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Minnesota, was responsive to CCD's urgent need for this type of equipment and agreed to build and demonstrate a protogree of the machine by July 1949. This was the basis for the first Intellofax tapes printed continuously onto thermofax paper, somewhat similar to, though smaller than,

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(1) index, by business machines procedures, the subject matter of all available reports, and other documents of a foreign intelligence nature and (2) classifiy and catalogue all intelligence 25X1A9a materials of a foreign intelligence nature to CIG.

Chief of Central Index, was given the responsibility for organizing and developing the initial essential steps toward ostablishing a central indexing and filling system, in conformity with an earlier ICAPS recommendation in March 1947. It soon became apparent that no existing equipment would be capable of meeting the needs envisaged. Although an IBM punch card offered great flexibility and speed in the handling of thousands of cards, each of which would represent a particular document, no card would earry enough printed data to supply the researcher with titles and descriptions of documents. During 1947 and 25X1A9a 25X1A5a1 met with top management of

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to discuss the possibilities of the use of

to the documentation problem. A said that his company would be willing to cooperate with IBM in adapting the Telefax machine to automatically reproduce bibliographic and subject abstract data typed on IBM cards onto any type of paper including a duplicating medium, This would answer the problem of preparing accession lists and lists of abstracts requested. (Management originally planned for a daily accession list of those intelligence documents received and indexed, all of which would be abstracted.)

Approved For Refease 2001/08/01 Clarence Center, ORE to Chief with Men Central Index 7 July 1947, sub: Establishing Central Index U. (in Chrono 1946-47 59-98/8)

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The Intellofax tape, as it was known through the entire

Intellofax history, was originally a 4 inch wide tape prepared by

the facsimile process. The Intellofax punched card was fed into
which optically scanned the
a transmitter: the printed information.

A receiver received signals from the transmitter; the printed information was impregnated into a chemically treated tape which was dried by a heat process. The resulting continuous role of facsimile tape was folded and ultimately given to the requester.

The early OCD managers had hoped to electronically

transmit the Intellofax information to requesters in their own

office locations. As of 15 May 1950, 6 transmitters and 12 receivers

had been delivered. Experimentation continued throughout the summer

months and the first bransmission was strictly local, transmitter and

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receiver side by side in the Machine Division. One receiver was placed

in the Branch Library, but security considerations and technical problems of transmission were responsible for not continuing with what seemed like a Utopian transmission phase.

The production of Intellofax tapes in the 1950's and 1960's first by facsimile process and later by the Gard List Camera and Photostat Expeditor always remained in the Machine folder (or MANA later in booklet form) were delivered to the requester hot via electronic transmission but by hand.

* Photo of Transmitter and Receiver

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B. Coding Schemes

J. The Intelligence Subject Code (ISC)

In comformity with ICAPS wishes steps were also taken by the Central Index to prepare a unified subject 25X1A9a classification scheme. Trote to in 25X1A9a

July 1947

Although the Reference Branch has taken the initial steps in the direction of establishing central indexing and filing procedures, any unified acceptance of the end product of these investigations will depend upon joint action of IAB and CTA representatives and the agencies final acceptance of the system decided upon.

On 11, July 1917 entered on duty as Chief of the Classification Unit of the Intelligence Documents Division to work with the Central Index in developing a classification schedule for CIG.

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It was soon evident that the War Department's

Basic Intelligence Directive (BID) devised during World

War II for collection purposes (although it had been used 25X1A6a

for classification of documents in the G-2 Library in

immediately after the war) was not adequate. The subjects listed in the BID were not sufficiently comprehensive to cover the wide range of subjects in intelligence documents because it had been devised for Army purposes only. The economic, political

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using these classification schemes.

successfully to recruit

and scientific sections were woefully weak. It was decided to prepare a list of subjects which would include those contained in the BID, the Navy Monograph Guide, the abridged Dewey Decimal system used by the State Department, and for scientific subjects, the Voge Classification, prepared and used by the Joint Research and Intelligence Board (JRBD).

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made visits to the parent organizations

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By August 1917 Classification Unit of 8

people had completed a general framework of an all-inclusive

classification schedule with the assistance of 25X1A9a

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, a classification specialist from JRBD. (OCD tried un-

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major subject categories included: Army, Navy, Air, Political, Economic, Sociological, Scientificm Geographic, and Biographic.

as a permanent employee). The

On 22 August a familiarization meeting was held with duly

appointed representatives of the three services. The participating IAB agencies agreed to develop and/or revise their respective

military categories in the BID. To those categories would be

added the CIG contribution consisting of the non-military

subjects. Because the War Department was not inclined to

change the numbering system of the BID (8 digits), it was to be

used as the nucleus of the new classification system.

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deviations with its own scheme.

other agencies. He and had visited the State Department

Inbrarian, who welcomed a comprehensive expansion of the Aray, Many and Air subject chassification, but felt that this expansion should be incorporated into the abridged Dewey. The representatives of the IAB agencies seemed to feel that what CIG was trying to do with a new classification would replace the classification which each agency was using. This was, of course, the ultimate aim, but it would not be realized even partially until the Air Force adopted the Intelligence Subject Code in 195h. Each representative took a cosmic view of the fields which were of primary interest to his agency and argued that the whole structure of intelligence would be imperilled by any

So the Library set about continuing with its own elassification.

The first edition of the Intelligence Subject Code (henceforth III) referred to as the ISC) was dated 15 March 1948. The Preface indicated that the edition was provisional and that the subject headings were intentionally kept rather general so that expansions and revisions could be made as experience required. There was no index to this first edition. A biographic or "Who's Who" class which was in the original outline was deliberately omitted because of the Biographic Intelligence Register of the Reference Center. The main classes and the number of notations (codes) were:

000 International Situation

(32)

100 National Affairs

(120)

OECD RT

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200 1 2000

200	· 4277311	(2)		
300	Navy	(181)		
400	Air Force	(83)		
รีกก	Meanons and	Scientific	Warfare	(11) ₁)

(139)

500 Weapons and Scientific Warfare (44)

600 Science and Technology (82)

700 Geography and Economics (232)

800 Social and Cultural Forces (67)

Total notations: 980

Each of the eight categories was broken down to provide, as nearly as possible, for the needs of the agency chiefly concerned— the Army, Navy and Air Sections following closely the patterns developed by the three services for their own use. The other sections had been worked over in detail with the ORE units chiefly concerned.

Chapters 100 through 800 retained their overall subject outline until the complete revision of the ISC in November 1960. Further chapter sub-divisions appeared throughout 1948, but it was not until November 1948 that the 600 and 700 sections were expanded to the full six-digit capacity allotted on the IBM card). A relative index (alphabetical) was printed at the same time.

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25X1A9a in the Library who had reported for duty, on 9 February

25X1A9a over from in mid-191/8 as Chief of the 1918. took Analysis Section (formerly Classification Unit). (She remained head of the input or classification effort for the Intellofan System almost 20 years until the demise of the system the end of 1947.) She worked closely with analysts of ORE/ ORR and CSI in the continuous revision process during the first five years, ensure more effective organization of the information in documents. These research analysts pointed out deficiencies in certain subject fields and suggested appropriate changes. Most suggestions benefited and improved the ISC; others refelcted only parochial needs of insistent and narrow-in-outlook requesters who raised their subject specialty out of all proportion to the entire scheme of knowledge. ? The latter type of requester made one section of the ISC look ridiculous: the subject code for Plant Pathology (632.4) was sub-divided into 68 different codes for wheat, rye, barley, oat and miscellaneous crop diseases with the names in English followed by the scientific term in Latin.

The 1949 ISC resembled the original 1949 edition only in the 8 major chapter headings. Within each chapter much restructuring book place. A new heading for Communism was added and the 114 section became the most widely used and remembered throughout the the book. Geography was moved from 700 to the 600 chapter. In 1950

at the time the Library decided to catalog books according to the ISC, a 900 chapter (Organization of Information) was added.

The history of the ISC from 1948 through 1967
was a history of change and hoped-for improvement. 980
codes grow to 5,000. A review of the master copies of the
ISC during these years reveals many pages of revisions.

Actual New editions were published in 1954, 1957, 1960,
1962, 1964 and 1967. Changes in subject codes necessitated
the preparation of new cards. The printed information
was transferred from the old card to the new card by means
of a heat process, whereas the punched data was converted by
machine under punches to the new codes. This was a timeconsuming process and caused backlogs in the Machine
Division. (The biggest change to an entirely new ISC
in 1960 did not involve conversion; thereafter, the
Intellofax cards were kept in separate files—"A" file
from 1960 on and "B" file-pre-1960).

All classification schemes have limitations, and the ISC was no exception, particularly since code expansion was tied into the allotted spaces on the IBM card. Library personnel always worked-closely-with the Machine Division personnel before-anything unique was adopted. As mentioned earlier, the full digit expansion of the TCO chapter went into effect in November 1948. By 1950 it become evident that certain aspects

of information could be uniformly applied to almost all and equipment commodity, subject codes in that chapter. These "actions" were production data; imports-exports; maintenance, repair, replacement and construction; procurement, etc. The Library and the Machine Division personnel worked out a unique scheme for affixing a modifier before the subject code.

A list of one to two digit "action" or prefix modifier codes was established. The classifier entered them on the code sheet by placing a slash between the modifier and subject code. For example, the production of coal was written as 1/735.1. The slash appeared on the IBM card as an overpunch in columns 1-6 (subject field).

This important change in the coding process extended eventually by 1951; to see other chapters of the ISC.

Prefix modiers were applied to the military chapters in 1959 for such aspects as security, vulnerability, sabotage, order of battle, specifications and description of miltary equipment.

of the subject codes—115 (Insurgent Groups) had no further breakdowns. At the request of the ORE/Greek desk at the time of guerrilla uprising in Greece, the following instruction appeared in the 1949 ISC: The 115 code may be combined with the first digits of any classification number throughout the ISC, e.g. monetary system of Greek Amerrillas—115.773.

The same rule applied to the 900 chapter downgooding and dependent of the Pool chapter downgooding and Approved For Release 2001/08/01: CIA-RDP84-00951R000300040008-9

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Coding specificity was also achieved in another manner.
other instances. A list of languages, minorities and cultures
was prepared and coordinated with Andrews (his specialty)
and the 3 digit identification could be combined
with either the 117 code for minorities or the 876 code for
foreign languages. For example, the Italian minority was
coded 117.119 and the Italian language was coded 876.119.

Statistics compiled for the Intellefax System indicated that an average of subject codes were assigned per document.

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2. Area Classification

Library Classification as the best and most adaptable system for coding geographic areas. According to this system the world was divided into 26 main divisions, A through Z. Each alphabetic division was further subdivided, moving from right to left with a numeric designation. For example:

M Europe

11M Scandinavia

11M Denmark

21M Finland

BIM Norway

41M Sweden

111M Northern Sweden

211M Southern Sweden

ams did not maintain its area classification on an up-to-date basis; therefore, the Analysis Branch (the Section became a Branch early in 1950) was constantly expanding the code and updating it to specific Intellofax needs. When India was divided into India and Pakistan in 1948, the former code of 5U became EU for India and NU for Pakistan, with further subdivisions for both countries. Political-geographic concepts and some types of country relationships were designated by means of a slash(/) which always followed an area code. For example, /A denoted a League, Confederation, Axis or International Organization. Thus, the Arab League was coded 6K/A; the United Nations became 1/A. (1 had been

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noted Communist influenced or dominated countries and was used effectively with the Eastern European or Far Eastern blocs. By this device the Machine Division could easily retrieve information on all Communist countries (other than USSR which had its own area code of N). It was easy to segregate the Russian Zone of Germany (LM/C) from West Germany (LM/C).

Related Areas

The original design of the IBM card allowed for digits (columns 7-10) of the AMS code. Soon thereafter, column II was allotted to the slash. Two years of experience pointed up the inability of being able to show any area relationships. This came to a head with the 1950 Korean War, when it seemed necessary to be able to show some combination of Communist China, USSR, North Korea, South Korea or the USA. The entire punching area of the IBM card (other than the subject field which always remained the first of digits) was revamped, eliminating certain codes with did not seem necessary, such as day of publication and date of information and adding other codes, such as two digit abbreviated area codes to be used only as related areas. in columns 19-22. The revamped card of February 1950 provided

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Area Codes

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space for two related areas of digits each. Area codes with contained more than digits became abbreviated, such as 228M to SI for Spain. The classifier * indicated them on the code sheet with a parenthesis to alert the key punchers.

Example: N (6M)(JM) - some relationship between the USSP (N) and France (6M) and Russian Zone of Germany (JM)

Area File

The advent of the Korean War also brought out the meed for a separate file arranged by area. Requests which were coming in for everything on Korea could not be answered quickly because the primary file arrangement of the Intellofax card was by subject code. Beginning September 1950, the Machine Division started an adjunct free File by preparing one extra card for each main area (there was no card filed by related area). No subject code was punched into the card. The Area File filled a specific need at the time, when many analysts were weefully ignorant of Korea. It continued to serve effectively in retrieving all information on smaller areas, such as the oblasts of the UBSR and the prvinces of China. Because the Area File grew so rapidly and was consequently useless for large areas in its set-up without subject code punches, the Analysis Branch and the Reference Branch made an agreement, concurred in by the Machine Division, that area cards would be punched only for

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^{*} Analysis Branch professional personnel were called by various titles: classifiers, indexers, coders the most common, but the least professional), and finally Library or document analysts.

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the European satellites (except the Russian formular). USSR oblasts, Central (except Mexico) and South American countries, African countries, Asiatic countries (incl. Near, Middle and Far East), Finland, Yugoslavia, Trieste, the Vatican, and islands (except Australia and New Zealand).

In 1955 another important change was made to the Area File. The classifier underlined one subject/area combination considered most representative of the whole document. The entire A digit embject code was punched into the area card, but within a given area the card was filed only by the first Addigits of the LSC.

3. Miscellaneous Codes

a. Security Classification

With the completion, (although continual revision, of the ISC and the adoption of the AMS Area Classification, thought was also given to other necessary codes to be punched into the IBM card for complete retrieval. Dr. Andrews issued a memorandum on 3 January 1949 to "All Hands, OCD", establishing uniform codes to be used on all OCD coding operations. The Procedure Manuals of the Intellofax System (1949, 1954, 1959, 1960, 1967) show the security classifications with various controls which evolved as more and more non-CTA requesters used the '. In 1949, in addition to the actual security classification codes, there were only two types of controls-US Officials Only and CIA Internal Use Only. Over the years, others were added to the coding pattern so that the machines could eliminate certain document citations with controls such as Controlled Dissemination, Warning Notice-Sensitive Sources, No Dissem Abroad, No Foreign Dissem, etc. b. Source Locator

In June 1948 the Library issued Library Bulletin No. 1.

Entitled the Locator System, it explained that the intelligence document files in the Library had been set up according to "A" and "S" files. An arbitrary division, it was devised for

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practical and simplified location and filing of documents.

"A" files included mainly attache reports and State

despatches as well as CIA raw intelligence (00-B's and S0's).

"3" files included mainly finished intelligence, intelligence

symmaries, monthly or weekly reports, and the like. The

first number in the locator was a digit code assigned to

a particular agency. The remaining digits were the country and

the post for "A" type documents and branch and division of

the agency for "S" type. Thus, 05A0601 referred to Army attache

report from

Army series type document from the Far East Command, ATIS.

These same designations were also used for indicating the source

of the document on the Intellofax punch card.

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bulletin because of numerous changes in organizational divisions of government agencies. In the intervening year, in addition to the "A" and "S" type categories, four more had been added:

"C" correspondence and Executive Registry material, "G" basic intelligence studies, "L" bibliographies and "F" press. By February 1950 these arbitrary type designations were no longer punched in to the Intellofax card.

The Maight source locators remained basically unchanged until May 1951, when specific city or post locators for Army, Navy and Air attaché reports were no longer considered necessary

for retrieval. By Jammary 1956 only the 2 digit source locator was used for everything except CTA, foreign povernment reports and Rop Secret documents.

61.- Air 02.- GIA

03- Navy

Oh- State

06- Defense in general

07.11 Other government agencies

15- Executive, Legislative and Judicial Branches

16- Non-dovernment

17- International Organizations

18- Foreign Governments

The following is a typical request using all the code selectivity:

GROUP 1
Excluded from automotic dawngra Eng and daclassification

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26xcmunist Party penetration of labor organizations in during 1949-50. CIA document (SO) only.

Through Confidenti	Original card format	
1114.562	Subject code	(columns 1-6)
<u>e</u> i .	Country cods	(columns 7810)
49-50	Dates	(columns 24-25)
02~0404	Source	(columns 13-20)
Security class		raification (moluments)

4. Abbreviation File

A reference tool which the classifiers found a need for as early as January 1949 was a list of abbreviations of organizations which appeared in intelligence documents. A manual file of 3" x 5" cards was established out of necessity because there was no one list of abbreviations, particularly of a classified nature, which met the complete need for identification. A statement of functions of the CIA Library in September 1950 included: "Maintain and service a central file of abbreviations and code names for intelligence documents."

Established originally because of an indexing need, the growing (19,000 by 1959)

Abbreviation File was also used by the reference librarians when published lists of abbreviations did not answer specific reference queries. The card contained the abbreviation, the area, the title translatic the abbreviation the foreign title, a brief descriptive comment, and the source of ffices throughout CIA, particularly FDD, supplied hundreds of

abbreviations and their identification to this File. A note appeared in Approved For Release 2001/08/01: CIA-RDP84-00951R000300040 00829 from outlamotic and control of the control of the

of the CIA Library encouraging requesters to make use of the File. In 1954 a publication was distributed entitled "Abbreviations of U.S., and International 25X1X7 Organizations of Intelligence Interest " (CD # 1).

Thereafter requests were received to publish certain segments of area interest, such as all Russian abbreviations, but there had been no attempt to confirm translations or even the correct foreign language title.

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Daily Reports

from the Very Beginnin, The Reference Center was eager to begin some kind of indexing using machine techniques, so while negotiations were continuing for the development of the Intellofax equipment and for the construction of a unified classification scheme, management decided to index the Daily Reports. This actually became the first data base available for machine retrieval from the Reference Center. Two analysts from the Classification Unit were assigned this task and that manpower coverage continued until indoxing was discontinued in 1952. Card punching began on 19 August 1947. The index cards contained the following information: security classificationy pamphlet date; one Wdigit subject from Wmajor subject categories (Army, Navy, Air, Science and Geography, Domestic Political Affairs, Foreign Political Affairs, Economics. Sociology and Miscell/mous); page reference; intercept headline; transmitter; target countries. 99 countries with a digit sequential code made up the area codes. The requester was furnished with a listing of the selected cards showing: intercept heading; page reference; pamphlet date; security classification and areas. By the end of September 1947 14,762 cards had been punched and filed. By November the index covered reports issued since Mask1A7b

> This method of indexing Daily Reports continued

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effect what allowed for a redesign of this particular IBM card in order to make use of the ISC subject and area codes. Again only one subject code was permitted. The name of a prominent individual was entered in the first 15 spaces of the caption, which was restricted to 40 spaces.

A year later and the CIA Library jointly

prepared for inclusion in the front cover of all restricted

issues a short announcement advertising the available

indexing facilities. Based on recurring requirements from
the Library sent out
certain offices, particularly ORE/ORR and OSI, typed

lists of pertinent titles to these offices every week.

continuance of the indexing of the Daily Reports for Advances reasons: Requests averaged only 10 a month plus four recurring requests; and with indexing restricted to one subject per article because of workload in the Analysis Branch and in the Machine Division, adequate cross references to cover all subjects within an article could not be made. The Chief, Analysis Branch in a memo to the CIA Librarian stated that the two analysts thus released would be able to devote full time to help; reduce the Intellofax backlog of several thousand documents.

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Dr. Andrews concurred because of severe 1952 manpower cuts and because the OCD Registers picked up the found personality and industrial plant information in the Daily Reports. On 6 February the Library discontinued the coding of all radio broadcast information. Although the IBM cards were retired to Records Centers, the Library retained a master printed form of all the coding effort.

The issue of the desirability of re-establishing 25X1A76

a machine index to the Daily Reports was raised periodically. (See Library Consultants Report of 1957 and Herner Contract of 1958)

2. Barly Intellorax Coverage

With the publication of the ISC in March 1948 it was possible to start indexing in earnest. The first 15/efforts were confined to 005 reports. One Transmittal Sheet was prepared for each document: It contained a bibliographic statement, an abstract of the contents and pertinent codes. Until the Central Index had typing personnel and reproducing equipment to type and reproduce abstracts on the tabulating cards, only the punched data appeared on the IBM cards and the Transmittal Sheets were filed in the Library.

Plans called for the receipt of 1,000 documents a day. Experience already showed that a classifier could abstract only 30 documents a day. Becker noted in dune 1948

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that a T/O of 20 professionals in the Analysis Section would not provide adequate manpower to abstract every document. In Movember the current intake was between 100 and 500 items a day. The 1918 backlog of a pproximately 12,000 30 (predecessor of CS documents from the Clandestine Services) and 3000 other CIA reports was decreasing by 17 of the backleg of non-CIA reports it was estimated that if of the 154,000 items would not warrant indexing because of content. The unclassified and restricted documents for 1948 were indexed by Special Frojects # 1 ("the pool") Documents issued in 1946 and 1917 were processed but only those of priority areas of interest. Becker stated that it would appear possible that "we can set a 1 January 1949 target for providing daily tab-fax service." And this did occur.

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In a report to the Assistant Librarian on 9

March 1949, gave the following status report

of Intellocax coverage 18/

a. All "A" type reports were currently indexed since September 1948

b. "S" type documents were selectively indexed, such as all State GR reports, and Top Secret reports.

c. All correspondence with an Lacecutive Registry number.

d. All bibliographies on file in the Tibrary

e. All loan items

Heavy backlogs frequently fequired stringent measures that affected coverage/ For 4 months in 1949 unclassified

State Department despatches were not indexed. This was 25X1A6a briefly expanded to include any document from or

African and Latin American posts. No effort was made later to fill this void.

Document coverage rose from 46,681 documents in 1948
to 227,106 in 1950 or a total of 414,329 documents indexed
19/
into the Intellofax System the first 3 years. There are no
comparable figures available on the number of Intellofax
requests received in this same period. From 1951 through 1953
20/
requests from CIA and non-CIA users averaged 344 monthly.

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3. NODEX

Early in the indexing processing it became apparent that certain documents dealt with information what was of little or no intelligence value for retrieval purposes. The term "NODEX" was coined to represent those documents wald would not be indexed into the Intellocax System. Originally these were documents of a purely administrative nature. As the System grew, however, more subjective judgment as to the value of certain information for Intellofax retrieval purposes was exercised and the list of NODEX items grew and changed. In some cases, it was subject information which was rejected in other cases, it was an entire series. There was no way the Library could prevent the receipt of these documents; besides, some office in the Agency mightwant to see them. The whole question of what should be redexed was may much debated throughout the entire Intellofax history. No two researchers agreed, and much criticism was levied on the System because of certain NCDEX decisions.

The selection out criteria in the early days of the entirely

Intellofax System fell, upon the classifier, who would so mark

a document and its attached control card in the batch envelope.

Attached Control card in the batch envelope.

The Incoming and Dispatch Unit of the Library seem recognized certain series, such as Army Who's Who Reports. These were batched separately and did not even come to the attention

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of the classifier. A control card was prepared so that there regord in the Source Files for every card, however, contained only redeived document i.e. spurce, d'ocument dlassification. The title and not entered This abbreviated notation created problems in searching through document identification.

The early 1950 NODEX Standards included such topics or series as:

- a. Purely administrative mayters
- b. Consular or commercial functions (replies to complaints of Americans about lack of service)
- c. Notification of change in security classification
- d. Agendas of various international committees
- e. Order of battle (considered a military responsibility)
- f. Transmittals of enclosures not attached and not described adequately enough for indexing
- g. Industrial Card File (ICF) reports giving primarily plant data
- h. Who's Who reports
- i. Joint Weekas (considered cables)

Out of 17,367 documents pricessed in January 1951, bit the total, were produced nedexed or M

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A printed list entitled "MODEX Standards from Start of Intellofax System to July 1966 (Effective Pates of NODEX are in Parenthesis) is indicative of the colorful history of the NODEX program. (see attachment) Throughout the years, classifiers and reference Librarians were always reminded that the list was only a guide and that a document should not excluded from Intellofax subject control because some items within the Standards appeared in it.

(For microfilming of NODEXES see page 43)

Excluded from automatic downgrading and

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L. Cables

decided that cables and telegrams would not be considered a part of the central reference system for subject/crea retrieval. There was no question as to their current intelligence value, but OCD did not consider them vital to retrospective searching and therefore felt it was uneconomical to index the enormous cable flow.

This philosophy carried throughout the years of the Intellofax System, although there was a brief flurry of a cable indexing experiment in 1963/64 (see ____)

COUNTY

GROUP I Breledad from automatic downgroding and declessification

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D. INtellofax Procedures

1. The Batch System

I August 1918 CCD management decided that a review of the existing and contemplated document handling procedures should be made with a view to determining if such procedures could be modified to expedite the distribution, classification and indexing of documents pending the fulfillment of T/O requirements. of Administration and Management worked closely wit in setting up a detailed procedure for the use of multilith mats in controlling and indexing intelligence documents. This was the beginning of the so-called "batch" system which was modified many times during the next 19 years. A batch usually contained in one envelope 15-20 documents of like source; (This was similar to the organization of the The classifiers were dissemination function in the Liaison Division) not organised by source breakdown until April 1952.)

Put into operation in December 1948, the system included the complete processing cycle of dissemination, distribution, indexing, key punching and final filing of the documents in the Library document files. On one multilith mat with a preprinted distribution ladger for dissemination points within the Agency was typed bibliographic information (source, date, title, security classification, etc.); this mat was the bases for the preparation of control class

(a cut cff TWA card) to be attached to each distributed copy of a dominent.

One control slip also became a source card (see page 15)

* See attachment for Batch procedures of 13 December 1977

GROUP 1
Excluded from automatic
downgrading and
declassification

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The classifier used one of these control slips or cards on which to write the necessary codes for ultimate key punching. The typist prepared another multilith mat to be married with the punched IBM card.

The resulting Intell@fax card contained fields on the left for the codes; on the right end of the card was the printed bibliographic information which could be easily read by the maked eye. This duplicate was preparation of multilith mats continued until 1956, when a revised batch system climinated the preparation of control cards for distribution purposes.

In September 1969 each classifier was assigned an Intellofax stamp bearing his individual number. Used instead of the classifier's initials, the stamp was effixed in three places: (L) on the face of the document to indicate that indexing had been completed; (2) on the control card for the codes, so that key runchers could question a classifier, if necessary; and (3) on the Sabch Control Sheet Which stayed with the group of documents through the various processing steps.

A review of the first Procedure Munuals written in 1948 and 1949 for the machine operations and for the indexing of documents shows the intricacies of the Intellogar System as it developed. A procedure had

[#] See sample control slip

^{*} See sample Intelleran card

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to be written for every exception,

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For example, just to mention a few: Extra IBM cards

were printed for a number of offices- Top Secret Control

in order to set up its own source card file; Contact Office

the Intellofax card

for every CO-B document coded so that its could be natched

with CO's own contact card (and this procedure continued

until 1967); Reference Branch of the Library for every

Finished Intelligence and Basic Intelligence document

for setting up a cumulative index by subject, area

and title (this stopped in 1953); and CRM and OSI offices

what were engaged in the abstract program (see page 34).

A special procedure was written for loan documents which had to be microfilmed. If more than II, subject codes appeared on the control slip, the classifier wrote "MATS" on the Batch Control Sheet opposite the CTA control number in the "coded" column to indicate that additional Intellocax cards were needed.

As the years progressed, the system became more involved and procedures were constantly revised and hopefully improved.

The Machine Division and the Library personnel worked hand-in-hand in developing better and faster methods of processing the document flow and in taking care of users! needs.

* See sample Batch Control Sheet

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2. "Flash"

An indexing economy which developed was the socalled "Flash" procedure. By January 1949 classifiers recognized that there was a sizgable segment of documents which covered the same subject matter each time and which were issued periodically. "Quarterly Milytary Review", "Weekly List of Infectious Diseases", "Semi-Annual Railroad Statistics" were a few examples. It was a waste of indexing and key punching effort to code these documents every time they appeared. The such a document was encounteredoit was coded and abstracted in a table of contents manner; the Intellofan card bore the usual bibliographic statement but without report number or date. The word "Flash" appeared on the IBM card. A master Transmittal Sheet on which the abstract was prepared was filed in the "Flash" book in the Analysis Branch. Every time a similar document was received, its report number and date were entered into the FFlash" book on the Transmittal Sheet. When a subject retrieval request turned up the original "Flash" card, the librarian or classifier knew that he must refer to the "Flash" book to find all the documents which had been published and received. This "Flash" record was the only means of determining document numbers in order to retrieve the material ful of the document file.

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Although lists of "Flashed" reports were periodically distributed to the classifiers—I and the lists grow—I the classifiers were always reminded to glance at the current documents to guarantee they were sufficiently covered by the codes originally established. Changes in the ISC as well as wider subject coverage in the series did necessitate added coded.

The "Flash" system finally outlived its usefulness.

Irregularity of assuance of certain series, the manual labor involved in maintaining the "Flash" book

(for a period one copy was maintained in the Reference Branch also), the nuisance of not having a source card for every document, and the advent of the revised Intellofax system—all combined to its demise in 1960.

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Abstract Program

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3. The Abstracting Program

Dr. Andrews was very proud of his central reference of facilities and by late 1939 he felt that OCD was on the track of a "far more effective solution to providing analysts with quick retrieval of intelligence information than has ever, anywheren been achieved before." He devoted 32 pages to a definitive description of the Intellofax System, entitling his monograph "Central Leference Facilities. Status (1 November 1949) and Objectives." (He had prepared this paper at the request of Chief, COAPS for the information of all offices.) 23/
The Table of Contents is indicative of the complete coverage of his subject:

Summary
Glossary (of Intellofax terms)
Magnitude of the Problem
Classification Scheme
Intellofax System
Index Files
Abstract Files
Highly Decialized Reference Problems

In his usual dynamic approach, Andrews had briefed specialists in OPE on the potentialities of the Intellofax System and how analyst participation in the growth of the file would benefit the system and therefore the whole agency. In other words, he was asking analysts if they would like to contribute coded abstracts to the file. He stated that only the specialist could decide

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Abstracting

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which we the important documents bearing upon his field of specialty and on the specialist could write competent abstracts of such documents, first approach was to the NEA Division of ORE because he knew the Division Chief well. IN January began selecting and abstracting of 1949 the the most important documents on The assumption was that if the system could be made to work satisfactorily for one area, then it could possibly be extended to specialists on other areas. OSI also commenced operations on a trial basis in February, and the Greek desk of ORE in March. (History repeats 25X6A itself! Turing 1972/73 the GTI area of OCI is providing input to CRS's AEGIS computer system on an experimental basis.) OCD meanwhile continued to write abstracts of a table of contents type

25X6A

for publications covering a wide variety of subjects and areas. On pages 23 and 25 of the Intellofax study, Dr. Andrews provided samples of CCR, ORE and OSI abstract cards. A so-called contributor code was punched into column 21 of the IBM card so that if a specialist ever wanted to retrieve only his own abstracted material, he could do so.

The two desks in CRE providing theme abstracts

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exceedingly useful and that the process of writing abstracts had in itself yielded a number of unforeseen but highly valuable by-products, such as: If time saved in producing weekly and monthly summaries. I carbon copy of the abstract or Transmittal Sheet was filed in folders in a strictly chronological order and provided the desk chief a fully documented history of day-to-day events in the two countries. If training of junior professionals was improved, speeded up and thoroughly locked into the production system by the assignment of writing abstracts (of fechnically difficult reports no longer went into the Whold" basket but were analyzed, researched and abstracted. If ile space was saved, because the abstract could replace the original report.

Much as he had fostered and approved of the abstracting program, Dr. Andrews became concerned about the rapid growth of the abstract files in Intellofax. By the end of the year there were 18,047 abstracts (CCD_2847; ORE_6245; OSI_8955), and they were growing at a staggering rate. He warned that each extension of the system to a new group of specialists involved difficult adjustments, revisions and expansions in the classification scheme, required more typists and could be accomplished only by day—to—day hard work. How true!

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spent a large proportion of her time in 1949 and 1950 working on changes and expansions of the ISC to satisfy the needs of these new contributors. Area codes for three of the Near Eastern countries were expanded to take care of provincial divisions. This later created some problems because they were never used for retrieval in the Intellofax System.

Dr. Andrews concluded the Summary to his study with these pertinent words:

Because of the sclectivity being exercised in building up the abstract files, we are forging a tool which in years ahead will enable us to drain off from the Library thode documents which are of scant importance, thus making room for the current inflow and ensuring that reports of real importance are held available. It is quite possible that the central reference system being built by CIA will ultimately prove the most important central intelligence service which the Agency provides.

The abstracting program mushroomed from its beginnings but in 1949 reaching a prescende in the early 1950's. The

25X6A

25X6A

of NEA joined the program in 1950, as

did Agriculture/FE Division. In 1950 ORR contributed
21/
16,558 abstracts; OSI-20,186. Some of these deaks even set up
their filing systems according to the ISC subject breakdowns.

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OffR
Other divisions or branches began to contribute in 1951 25X1A9a
on the encouragement of the Assistant Director,
who was interested in space saving. Off contributed
16,558 abstracts in 1950 and 10,695 in 1951. OSI contributions
amounted to 20,186 in 1950 and 20,715 in 1951.

However, the downward trend began in 1952/53 as because specialists in ORR and OSI were interested in spending their time learning how to use the ISC correctly for in-depth indexing CSI/Physics and OSI/Medicine were heavy contributors but finally ceased in 1951; and 1955 respectively. PSO ORR/Shiphyilding Marketic last ORR

ORR/Shipbuilding het the last ORR component to stop input,

ould preclude the indexing of these same documents by the contributions would preclude the indexing of these same documents by the contributions frequently extracted and coded only that part of the document that interested them. There was never any guarantee that the entire document was covered. So duplication continued; both TBM cards would turn up on a machine run if the same codes had been used (and there was no guarantee of this, either.). In such a case, the OCD classifier or the librarian in screening the cards before an Intellocat tape was made would pull put the non-obstracted card as being less meaningful.

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A great danger to the Intellocar System later surfaced that research offices had stopped the abstracting program. References turned up that could will not be retrieved and later, such as articles in Russian scientific journals indexed by OSI and Later thrown arey.

Mo limit as to source material had been placed on the specialist, who might even ant to extract or prepare an abstract from the New York Times. In the mid-1960's (exact date not confirmed) all Hed cards with the contributor code were pulled and destroyed for they added nothing to the Intellofax file, but rather created retrievel difficulties.

THE COAD

E. The Microfilm Program

One of CCD's problems was that of keeping the Library operating at a maximum peak of efficiency. The Intellofax System had made available a greater volume of library document references to a larger number of requesters than had ever before been possible. The increased output of the System had resulted in a corresponding increase in requests for the documentary materials referenced. In wishing to offer maximum service to all offices, the Library was faced with the dildmma of coalescing two variations in point of view as to these services. On the one hand some of the Library users insisted on an inviolate set of documents in the Library at all times. On the other hand, some insisted on the availability of library materials to their respective offices upon demand. In answering this criticism by an ORR analyst. Becker wrote:

We clearly recognize the need for ensuring the availability of a master set of documents; however, keeping an original document collection poses problems of filing, space, circulation and reference which are almost overwhelming.

With 617,562 intelligence documents on file (but not all indexed) in the Ligrary by September 1950, space had also become a serious problem. There was no doubt in anyone's mind that microfilming was urgently needed.

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Microfilming

In March 1950 the Library began experimenting with a microfilm and print procedure and by mid-1951 it began to microfilm all single-copy material on 35 mm, reel film.

The Machine Division and the Library worked closely together to develop the best sort of system to solve the Library 25×1A9a document storage and retrieval problem. In January 1951 and 25×1A5a1 his deputy, examined equipment at

25X1A9a

25X1A5a1

mounted into an IBM aperture or window card. This system allowed each document that was microfilmed to become a separate entity in itself and not just part of a reel, as was generally the case in most microfilm applications up to that time.

In October 1951 Becker told Dr. Andrews that the problem was urgent and he proposed that the Library microfilm all incoming documents, keeping a copy of the document as well as the microfilm. The latter would be available at all times both for viewing purposes and for reproduction in cases where the requester wished to retain a copy. On 19 December 1951 the Project Review Committee authorized microfilming of all significant incoming intelligence documents and approved funds in the amount of the initial purchase of equipment and in the amount of the annual costs of personal services and supplies.

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Organizations and Methods	of jurisdictional questions raised by the nor s Service; surveyed the proprosed OCD	25X1A9a
	omitted a final report on 15 October 1953,	
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	e on the entire collection, eliminate traci	
	rowings from other agencies, about 90% economic	
	t, better utilization and conservation of pe	
will permit reduction in	size of researchers files and will expedite	e the
chain routing of documents	s. 200	

and 1953. At a CIA Bidget hearing in 1953, Dr. Andrews stated that the Machine Division's prime jeb was to keep pace with new devalopments all over the country but that the most important research then at hand was to develop a microfilm processor that, in conjunction with the Intellofan equipment, would ensure that the Idbrary would give to the analyst the rocuments which he asked for.

"mounters" to cut the microfilm reels and install the frames in
the aperture cards, one Photostat Printer-Processor to make positive

prints from the aperture cards,

The aperture card was a punch card which had information identifying the microfilmed document printed across the top and lorm. film images of an intellefaced document mounted in apertures (openingal on the right-hand side. Aperture cards varied in that a single aperture might contain one, two, three or four apertures. Each aperture contained a maximum of two film images, each image being one page of a document. The basic procedures of microfilming documents did not ghange materially until 1966 when 35mm. film was used for the preparation of aperture cards instead of 16mm. film. Detailed procedures were outlined in

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A screening committee of librarians and machine people

IA-BDF84-90951 E00060 00040 0081 9 documents at

Microfilming

INTELLOFAX_-page 13

ŶŔpproved For Release the intake point and to work up proper procedures. The first documents microfilmed were State Department despatches. These were followed by Air Force reports (from an original czalid copy, which had to be returned to the Air Force within 48 hours) in April; by Army and Navy reports in July; and by the last segment -- CIA reportsin September,

> The aperture cards were filed in the Circulation Branch of the Library by control number assigned to the document. 35mm. reel film was used for documents over 50 pages in length. Bulky and oversized documents were not microfilmed. The remainder of the documents were photographed on 16mm. film. (See page 46 for microfilm designators of control numbers on source cards.)

With full-scale microfilming in effect, the Idbrary and the Machine Division soon decided labe in 195h not to microfilm NODEX documents because their contents did not meet indexing standards. In April 1955 this decision was amended so the microfilming would occur only for those NCDEXES that were single copy, required further routing, contained enclosures or were of CIA origin, thus ensuring an inviokate copy in the Library.

In the step-by-step procesding or batch procedures established for the flow of most documents, microfilming occurred after indexing, so that NODEX determination could be made first. This had one big disadventage in that the microfilm of the document was not on file until after all other provessing had been completed. INTELLOFAX -- page 144

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Print service from the aperture film became the responsibility of the Circulation Branch. Any equipment developments or problems were the responsibility of the Machine Division, such as experimenting with improved aperture card positioners for Filmsort viewers and with methods of printing documents from the microfilm viewers.

Figure 13

Aperture Card From the Aperture Card File

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INTELLOFAX—page 45 Approved For Release 2001/08/01 : <u>644 PBP-4</u>-00951R000300040008-9 Source Card

## F. The Bource Card File

An important by-products of the Intellofax System was the esymblishment of a source card file. The Library early recognized the need for a card catalog of document sources, similar to the author file in a book catalog. In the first coding efforts of 1948 the classifier wrote the codes on a 3 x 5 form on which the typists had typed the bibliographic olf (so-called from the form data. This so-called 35-2 number) was filed in the Library by source after the completion of key punching. With the anauguration of the Batch System and the use of multilith mate for the preparation of the bibliographic data onto the IBM card, the Machine Division provided the Library with a 3 x 5 card.

source cards

These "cut" Intellofax cards were used as until 1965 when the Library agreed to accept from the Machine Division a punched Intellofex card, pdvantage presumably being that these source cards could be sorted daily by machines,

The source card file served several purposes: (1) inventory of document holdings; (2) identification a document /and (3) location of a document. Requesters looking for a specific document often did not have the

See page 29

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Source card

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The source cards were filed by source, year of publication, specific post or agency breakdown and document number.

A brief tittle description of the enclosure palse whether it was received or not received, microfilmed or not microfilmed, appeared on the card. After the librarian in the Circulation Branch had identified the document, the she could then find it in the files- either in hard copy files maintained in the samessequence as the source card file or after 1954 on microfilm. The approach to the microfilm was only through the document control number that appeared on the source card:

"O" control number--- on 16 mm. aperture card

"C" control number--- on 35 mm. reel

"V" control number--- not microfilmed and in hard copy

The source card which was prepared for NODEXES contained only an abbreviated bibliographic entry, i.e., source, document number, date and security classification. The title and country were not entered. This abbreviated adation saved typing time, but created problems for the Circulation Branch librarians who searched the Source Card File for document identification.

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## Library

Maintain and service a central file of abbreviations and code names of intelligence documents

( Statement of Functions 20 Bept 50 from Ex AD/CD to Management Officer)

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SECRET